Corso di Laurea Magistrale in Computer Science

a.a. 2021-2022

(Corso di Studi Internazionale erogato in lingua inglese)

Study Plan

FIRST YEAR

Course	*Didactic Activities*	*Credits*	*Assessment*				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
I semester							
Database Systems	ING-INF/05	b	9	7	2		Exam
Numerical Methods for Computer Science	MAT/08	c	9	7	2		Exam
Formal Methods in Computer Science	INF/01	b	6	4	2		Exam
Information Theory	INF/01	c	6	4	2		Exam
Total Credits			**30**				

II semester **CURRICULUM: Artificial Intelligence**							
Fundamentals of Artificial Intelligence	INF/01	b	9	7	1	1	Exam
Machine Learning	ING-INF/05	b	9	7	2		Exam
Natural Language Processing	ING-INF/05	b	6	4	2		Exam
Computer Vision	INF/01	b	6	4	2		Exam
Total Credits			**30**				

II semester **CURRICULUM: Security Engineering**							
Secure Software Engineering	ING-INF/05	b	9	7	2		Exam
Urban Security	ING-INF/05	b	6	4	2		Exam
IoT Security	INF/01	b	6	4	2		Exam
Human-Computer Interaction for Cyber-Security	INF/01	b	9	6	2	1	Exam
Total Credits			**30**				

Second Year

CURRICULUM: Artificial Intelligence

Course	*Didactic Activities*	*Credits*	*Assessment*				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
I semester							
Big Data	ING-INF/05	b	6	4	2		Exam
Software Engineering for AI-Enabled Systems	INF/01	b	6	4	2		Exam

Semantics in Intelligent Information Access	INF/01	b	6	4	1	1	Exam
Students' choice		d	12				Exam
Total Credits			**30**				

II semester				
Course	**S. S. D.**	***Tip****	***Tot. Credits***	***Assessment***
Further Didactic Activities (Internships, seminars)		f	7	Attendance verification
Advanced Scientific English	L-LIN/12	f	3	Pass/Fail Exam
Final Assessment		e	20	Final Exam
Total Credits			**30**	

CURRICULUM: Security Engineering

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
I semester							
Project Management for Security	ING-INF/05	b	6	4	2		Exam
Serious Games for Cyber-Security	INF/01	b	6	5		1	Exam
Artificial Intelligence for Security	ING-INF/05	b	6	4	1	1	Exam
Students' choice		d	12				Exam
Total Credits			**30**				

II semester				
Course	**S. S. D.**	***Tip****	***Tot. Credits***	***Assessment***
Further Didactic Activities (Internships, seminars)		f	7	Attendance verification
Advanced Scientific English	L-LIN/12	f	3	Pass/Fail Exam
Final Assessment		e	20	Final Exam
Total Credits			**30**	

Further didactic activities to be activated:

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Social Computing	INF/01	d	6	4	2		Exam
Cyber-Security Capstone Project	ING-INF/05	d	6	3	1	2	Exam
Cloud Computing	INF/01	d	6	3	1	2	Exam
Interaction with Intelligent Systems	INF/01	d	6	4	2		Exam
Knowledge Representation and Reasoning	INF/01	d	6	5		1	Exam
Social Robotics	INF/01	d	6	4	2		Exam
Quantum Computing	INF/01	d	6	4	1	1	Exam
Ethics, Privacy and Security	INF/01	d	6	6			Exam
Metodologie e Tecnologie Didattiche per l'Informatica	INF/01	d	6	4	1	1	Exam

Semantic Technologies and Knowledge Graphs	INF/01	d	6	5		1	Exam

(*) Typology: b=characterizing courses, c=integrative courses, d=students' choice, e=final exam, f=internships and English language.

STUDY PLAN FOR PART-TIME STUDENTS

FIRST YEAR

First semester: Both Curriculum

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Numerical Methods for Computer Science	MAT/08	c	9	7	2		Exam
Information Theory	INF/01	c	6	4	2		Exam
Total Credits			**15**				

Second semester: Curriculum Artificial Intelligence

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Fundamentals of Artificial Intelligence	INF/01	b	9	7	1	1	Exam
Natural Language Processing	ING-INF/05	b	6	4	2		Exam
Total Credits			**15**				

Second semester: Curriculum Security Engineering

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Secure Software Engineering	ING-INF/05	b	9	7	2		Exam
Urban Security	ING-INF/05	b	6	4	1	1	Exam
Total Credits			**15**				

SECOND YEAR

First semester: Both Curriculum

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Data Base Systems	ING-INF/05	b	9	7	2		Exam
Formal Methods in Computer Science	INF/01	b	6	4	2		Exam
Total Credits			**15**				

Second semester: Curriculum Artificial Intelligence

Course	***Didactic Activities***	***Credits***	***Assessment***			
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**

Machine Learning	ING-INF/05	b	9	7	2		Exam
Computer Vision	INF/01	b	6	4	2		Exam
Total Credits			**15**				

Second semester: Curriculum Security Engineering

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Human-Computer Interaction for Cyber Security	INF/01	b	9	7	2		Exam
IoT Security	INF/01	b	6	4	2		Exam
Total Credits			**15**				

THIRD YEAR

First semester: Curriculum Artificial Intelligence

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Big Data	ING-INF/05	b	6	4	2		Exam
Software Engineering for AI-Enabled Systems	INF/01	b	6	4	2		Exam
Semantics in Intelligent Information Access	INF/01	b	6	4	2		Exam
Students' choice		d	12				Exam
Total Credits			**30**				

First semester: Curriculum Security Engineering

Course	***Didactic Activities***	***Credits***	***Assessment***				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Project Management for Security	ING-INF/05	b	6	4	2		Exam
Serious Games for Cyber-Security	INF/01	b	6	5		1	Exam
Artificial Intelligence for Security	ING-INF/05	b	6	4	1	1	Exam
Students' choice		d	12				Exam
Total Credits			**30**				

FOURTH YEAR

Both curriculum

Course	**S. S. D.**	***Tip****	***Tot. Credits***	***Assessment***
Further Didactic Activities (Internships, seminars)		f	7	Attendance verification
Advanced Scientific English	L-LIN/12	f	3	Pass/Fail Exam
Final Assessment		e	20	Final Exam
Total Credits			**30**	

Further didactic activities to be activated:

Course	*Didactic Activities*	*Credits*	*Assessment*				
	S. S. D.	**Tip***	**Tot**	**Less**	**Ex/Lab**	**Prog**	
Social Computing	INF/01	d	6	4	2		Exam
Cyber-Security Capstone Project	ING-INF/05	d	6	3	1	2	Exam
Cloud Computing	INF/01	d	6	3	1	2	Exam
Interaction with Intelligent Systems	INF/01	d	6	4	2		Exam
Knowledge Representation and Reasoning	INF/01	d	6	5		1	Exam
Social Robotics	INF/01	d	6	4	2		Exam
Quantum Computing	INF/01	d	6	4	1	1	Exam
Ethics, Privacy and Security	INF/01	d	6	6			Exam
Metodologie e Tecnologie Didattiche per l'Informatica	INF/01	d	6	4	1	1	Exam
Semantic Technologies and Knowledge Graphs	INF/01	d	6	5		1	Exam

(*) Typology: b=characterizing courses, c=integrative courses, d=students' choice, e=final exam, f=internships and English language.